

I CLAIM:

1. A filter for connecting water from a contained body of water to the suction end of a water circulation system for such body of water, such circulation system including a pump with a suction end and a discharge end, said filter

5 comprising:

a filter body that includes a cylinder having a water inlet opening at one end and a water discharge orifice at its opposite end, the sides of such cylinder being formed with auxiliary water inlet openings;

10 a filter bag that includes a cylindrical sheath which extends from the first-mentioned water inlet opening end of the filter body encompassing the exterior of the filter body, such filter bag also being formed with a pocket that extends concentrically inwardly from the water inlet opening end of the sheath longitudinally into the filter body from the first-mentioned water inlet opening;

a retainer removably securing the filter bag upon the filter body; and

15 with the filter body discharge opening being connectible with the suction end of the water circulation system pump whereby upon operation of the pump water is drawn from said body of water into the first-mentioned water inlet opening, and the auxiliary water inlet openings, through the filter bag and then out of the water discharge opening of the filter.

20 2. A filter as set forth in Claim 1, wherein the retainer is an O-ring removably positioned around the upper outer portion of the bag.

3. A filter as set forth in Claim 1, wherein a support ring is attached to the water inlet opening end of the filter bag to abut the water inlet opening end of the filter body.

4. A filter as set forth in Claim 1, wherein the filter bag includes a handle
5 for removing the filter bag from the filter body.

5. A filter as set forth in Claim 1, wherein the filter body water discharge orifice is smaller than the water inlet opening whereby upon operation of the water circulation system water flowing through the filter body forms a vortex that traps debris within the pocket.

10 6. A filter as set forth in Claim 3, wherein the retainer is an O-ring removably positioned around the upper outer portion of the bag.

7. A filter as set forth in claim 3, wherein the filter bag includes a handle for removing the filter bag from the filter body.

15 8. A filter as set forth in Claim 4, wherein a support ring is attached to the upper end of the filter bag to abut the upper end of the filter body.

9. A filter as set forth in Claim 4, wherein the filter body water discharge orifice is smaller than the water inlet opening whereby upon operation of the water circulation system water flowing through the filter body forms a vortex that traps debris within the pocket.

10. In a filter for use in a water circulating system, wherein the filter includes a filter body having a vertically extending cylinder formed with a water inlet opening at its upper end and a water discharge orifice at its lower end, the sides of such cylinder being formed with auxiliary water inlet openings:

5 a filter bag having a cylindrical sheath which extends longitudinally from the water inlet end of the filter body over the exterior of the filter body, such filter bag also being formed with a pocket that extends concentrically longitudinally from the water inlet end of the sheath into the filter body from the water inlet opening;

a retainer removably securing the filter bag upon the filter body; and

10 whereby upon operation of the water circulating system water is drawn longitudinally into the main water inlet opening and through the filter bag pocket into the interior of the filter body while concurrently water is drawn transversely through the filter bag sheath and auxiliary water openings into the confines of the filter body, with all of such water flowing downwardly out of the filter body through the filter
15 body discharge orifice.

11. A spa filter as set forth in Claim 10 which further includes a handle on the filter bag for removing the filter bag from the confines of the filter body.

12. A filter as set forth in Claim 10, wherein the retainer is an O-ring removably positioned around the upper outer portion of the bag.

20 13. A filter as set forth in Claim 10, wherein a support ring is attached to the upper end of the filter bag to abut the upper end of the filter body.

14. A filter as set forth in Claim 10, wherein the filter body water discharge orifice is smaller than the water inlet opening whereby upon operation of the water circulation system water flowing through the filter body forms a vortex that traps debris within the pocket.

5 15. A filter as set forth in Claim 12, wherein a support ring is attached to the upper end of the filter bag to abut the upper end of the filter body.

10 16. A filter as set forth in Claim 12, wherein the filter body water discharge orifice is smaller than the water inlet opening whereby upon operation of the water circulation system water flowing through the filter body forms a vortex that traps debris within the pocket.

17. A filter as set forth in Claim 12, which further includes a handle on the filter bag for removing the filter bag from the filter body.

18. A filter as set forth in Claim 16, which further includes a handle on the filter bag for removing the filter bag from the filter body.

15 19. A filter bag for use in a water circulation system that includes a filter having a filter body which includes a vertically extending cylinder formed with a water inlet opening at its upper end and a water discharge orifice at its lower end, the sides of such cylinder being formed with auxiliary water inlet openings, said filter bag comprising a cylindrical sheath which extends upwardly from the lower end of the
20 filter body to the upper end of such filter body, the sheath encompassing the exterior of the filter body, such filter bag also being formed with a pocket that extends concentrically downwardly from the upper end of the sheath into the filter body from

the water inlet opening of the filter body, whereby upon operation of the water circulating system water is drawn from such system downwardly into the filter body's main water inlet opening and through the filter bag pocket into the interior of the filter body while concurrently water from such system is drawn transversely through the
5 filter bag sheath and auxiliary water openings into the confines of the filter body, with all of such water flowing downwardly out of the filter body through the filter body discharge orifice back into the water circulation system; and

retainer that engages the filter bag to releasably secure such filter bag to the vertically extending cylinder during operation of the water circulation system.

10 20. The combination of Claim 19, wherein the retainer is an O-ring.